

Listing Of Claims

Please cancel claims 1, 2, 6-15, and 19-22 as indicated below (claims 3-5, 16-18, 26-28, and 39-41 were previously cancelled). Please amend claims 23, 24, 45, and 47 and add new claims 50-59.

All of the claims are reproduced below with the status of each claim indicated in parentheses.

1. (canceled) A media control valve, comprising:
a valve body having a media inlet and a media outlet;
a plunger positioned within the valve body;
a sleeve positioned within the valve body;
a media opening in the sleeve having a first portion proximate to the media outlet and a second portion distal to the media outlet, wherein the second portion is broader than the first portion;
a housing connected to the valve body;
a piston positioned within the housing and connected to the plunger; and
a base connected to the valve body in communication with the media outlet.
2. (canceled) The valve of claim 1, wherein the base comprises a unitary structure including a fluid passage and an attachment mechanism adapted to attach the base to the valve body.
3. (previously canceled)
4. (previously canceled)
5. (previously canceled)
6. (canceled) The valve of claim 1, wherein the piston comprises a contaminant isolation region.

7. (canceled) The valve of claim 6, wherein the piston is convex in the direction of the valve body.
8. (canceled) The valve of claim 1, further comprising at least one seal positioned between the plunger and the valve body adapted to resist the passage of one of media, fluid, contaminants, and combinations thereof between the valve body and the housing.
9. (canceled) The valve of claim 8, comprising three seals between the plunger and the valve body.
10. (canceled) The valve of claim 9, wherein the three seals are constructed as a unitary piece.
11. (canceled) The valve of claim 1, wherein the housing comprises an exhaust chamber including a vent.
12. (canceled) The valve of claim 11, wherein the vent comprises a filter.
13. (canceled) The valve of claim 12, wherein the filter is adapted to filter particles greater than about 20 microns in diameter.
14. (canceled) The valve of claim 1, wherein the valve body and the housing comprise two distinct structures adapted to be joined together.
15. (canceled) The valve of claim 14, wherein the valve body and housing comprise a mating structure.
16. (previously canceled)
17. (previously canceled)

18. (previously canceled)
19. (canceled) The valve of claim 1, further comprising a valve seat.
20. (canceled) The valve of claim 19, wherein the valve seat is constructed of an elastomer.
21. (canceled) The valve of claim 1, further comprising means for providing a gentle seal.
22. (canceled) A valve, comprising:
a body having a media inlet and a media outlet;
a flow path within the body [having a substantially linear axis and] including the media inlet and the media outlet;
an opening in the body having a first portion proximate to the outlet and a second portion distal to the outlet, wherein the second portion is broader than the first portion;
a closing member positioned within the body so as to selectively cover the opening.
23. (twice amended) A media control valve, comprising:
a body having a media inlet and a media outlet;
a flow path within the body [having a substantially linear axis and] including the media inlet and the media outlet;
[a] an air-actuated closing member positioned within the body and constructed and arranged to provide all metering positions from a fully closed position to a fully open position.[:]
[a housing;
a piston within the housing, connected to the closing member and having a contaminant isolation region.]
24. (twice amended) A media control valve, comprising:
a valve body having a media inlet and a media outlet;
a plunger positioned within the valve body;
[a gentle seal positioned within the valve body;]
a sleeve positioned within the valve body;

a media opening in the sleeve;
a housing connected to the valve body;
a piston [having a contaminant isolation region] positioned within the housing and connected to the plunger; and
a base connected to the valve body in communication with the media outlet;
wherein the plunger, the piston, and the sleeve are constructed and arranged to provide all metering positions from a fully closed position to a fully open position.

25. (original) The valve of claim 24, wherein the base comprises a unitary structure including a fluid passage and an attachment mechanism adapted to attach the base to the valve body.
26. (previously canceled)
27. (previously canceled)
28. (previously canceled)
29. (original) The valve of claim 24, wherein the media opening comprises a first portion proximate to the media outlet and a second portion distal to the media outlet and wherein the second portion is broader than the first portion.
30. (original) The valve of claim 24, wherein the piston is convex in the direction of the valve body.
31. (original) The valve of claim 24, further comprising at least one seal between the plunger and the valve body adapted to resist the passage of one of media, fluid, contaminants, and combinations thereof between the valve body and the housing.
32. (original) The valve of claim 24, comprising three seals positioned between the plunger and the valve body.

33. (original) The valve of claim 32, wherein the three seals are constructed as a unitary piece.
34. (original) The valve of claim 24, wherein the housing comprises an exhaust chamber including a vent.
35. (original) The valve of claim 34, wherein the vent comprises a filter.
36. (original) The valve of claim 35, wherein the filter is adapted to filter particles greater than about 20 microns in diameter.
37. (original) The valve of claim 24, wherein the valve body and the housing comprise two distinct structures adapted to be joined together.
38. (original) The valve of claim 37, wherein the valve body and housing comprise a mating structure.
39. (previously canceled)
40. (previously canceled)
41. (previously canceled)
42. (original) The valve of claim 24, further comprising a valve seat.
43. (original) The valve of claim 42, wherein the valve seat comprises an elastomer.
44. (original) The valve of claim 24, further comprising means for providing a gentle seal.
45. (amended) A media control system comprising:

a media vessel;
an air flow path;
a media flow path [having a substantially linear axis and] including a media inlet connected to the media vessel and a media outlet connected to the air flow path; and
a media control valve positioned on the media flow path; wherein
[the media control valve further comprises a gentle seal] the media control valve is air actuated and is constructed and arranged to provide all metering positions from a fully closed position to a fully open position.

46. (previously amended) The media control system of claim 45, wherein the media flow path axis is substantially perpendicular with respect to a surface upon which the media control system rests.

47. (twice amended) The media control [valve] system of claim 45, wherein the media flow path axis is substantially perpendicular to an axis of the air flow path.

48. (canceled) A media control valve comprising:
a valve body comprising a media inlet and a media outlet;
a media flow path having a substantially linear axis and including the media inlet and the media outlet;
a gentle seal positioned within the valve body;
a sleeve positioned within the valve body; and
a media opening in the sleeve.

49. (canceled) The media control valve of claim 46, further comprising an elastomeric valve seat.

50. (New) The valve of claim 23, further comprising a piston connected to the closing member

51. (New) The valve of claim 50, wherein the piston comprises a contaminant isolation region.
52. (New) The valve of claim 51, wherein the piston is convex in the direction of the valve body.
53. (New) The valve of claim 23, further comprising a gentle seal.
54. (New) The valve of claim 23, wherein the flow path has a substantially linear axis.
55. (New) The valve of claim 24, wherein the piston comprises a contaminant isolation region.
56. (New) The valve of claim 45, wherein the media control valve comprises a piston.
57. (New) The valve of claim 56, wherein the piston comprises a contaminant isolation region.
58. (New) The valve of claim 45, wherein the media control valve further comprises a gentle seal.
59. (New) The valve of claim 45, wherein the media flow path has a substantially linear axis.